# ESEP ProFiles

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## Capt. Paul Blue

Air Force Research Laboratory Aerospace Vehicles Directorate

#### **Education:**

MS in Mechanical Engineering, University of Minnesota BS in Mechanical Engineering, University of Nebraska



Capt. Paul Blue

## **Current Assignment:**

Institute of Robotics and System Dynamics at DLR-Oberpfaffenhofen in Germany.

#### **Description of Work:**

Developed a new analysis procedure that reduces the time required to analyze the performance of flight control systems for aircraft that operate over large flight envelopes by up to 90 percent versus traditional point-wise (i.e. flight condition by flight condition) analysis techniques. The procedure enables the predicted flying quality performance of a controlled aircraft to be mapped directly onto its flight envelope. Thus, control engineers can see by inspection at which flight conditions the control system satisfies the flying quality specifications.

## Research Highlights

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